PIERCE'S PYRO-PNEUMATIC STOVE GRATES, being the original and only **PURE WARM-AIR STOVES** that are constructed wholly of the FINEST PREPARED FIRE-CLAY, having no iron whatever in connecting with the warming surfaces, producing beautiful warmth, ventilation, and comfort, combined with economy. This medium of diffusing the cold external atmosphere into pleasant rarefied air is particularly adapted for

CHURCHES, BANKING HOUSES, OFFICES, ENTRANCE-HALLS, INFANT AND OTHER SCHOOLS, INVALIDS' APARTMENTS, &c.

Its cheerful open fire and discreet appearance render it equally applicable to the drawing or dining room, where purity of air is essentially important.

Price 7l.; 9l. 10s.; and 12l. 10s.

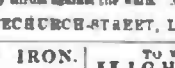
It may be seen in daily use at the University Hall, Gordon-square; the Polytechnic Institution; Wellington Chapel, Lloyd's Registry of Shipping, Cornhill; Guy's Hospital; the Bank of Messrs. Alexander and Co. Lombard-street; Office of "The Builder;" and at the Manufactory, 6, Jermyn-street.

PIERCE'S UNIVERSAL FIRE-LUMP GRATES, made of the finest prepared fire loam, in one entire piece, very strong, with large capacious bobs and trivet, and will burn either wood, coal, coke, or peat.

Price from 11s. 6d. to 3l.

PIERCE'S MANUFACTORY and SHOW ROOMS, No. 6, JERMYN-STREET, REGENT-STREET.

Sole Agent for NICHOLSON'S PRIZE COTTAGER'S RANGE, NEW PATENT COOKING STOVE, &c. &c.

IRON ROOF  **WORKS.**

By Royal Letters Patent.

JOHN WALKER, SON OF THE PATENTEE, GENERAL CONTRACTOR,

Having extended his means for executing Orders, and Contracts for

CORRUGATED IRON BUILDINGS AND ROOFS,

Galvanized or otherwise, will be happy to treat, by appointment, on ARCHITECTS, ENGINEERS, &c.

Merchants are invited to ascertain his Prices for shipping Orders. The Trade supplied with Corrugated Iron, Plain or Galvanized, or Iron Corrugated. References to Firms of the first class.

FIRE-PROOF FLOORING.

The earnest attention of ARCHITECTS, ENGINEERS, &c. &c. is called to a particularly economical mode of erecting Fire proof Floors capable of sustaining great weights, without any thrust against the walls. Any information, with Estimates, Drawings, &c. may be obtained at the Offices,

63, GRACECHURCH-STREET, LONDON.

THE PATENT GALVANIZED IRON.

TUPPER and CARR,

Owners of Crawford's Patents, and Manufacturers to

THE GALVANIZED IRON COMPANY,

supply patent Galvanized Sheets, plain or corrugated, for roofing, &c. Water or Gas Pipes, Casings, Wire of all gauges, Guttering, Hooping, &c. Wholesale, retail, and for export.

An allowance to the trade.

WORKS—BILLWALL and BIRMINGHAM.

LONDON OFFICE, 3, MANSION-HOUSE PLACE.

IRON BUILDING and ROOFING WORKS,

BIRMINGHAM, late of Southwark.

JOHN H. PORTER,

Manufacturer of the Corrugated and other kinds of Iron Roofing for railway stations, carriage sheds, farm buildings, greenhouses, factories, &c. &c.

PATENTEE

Of the Corrugated Iron Screens, Girders, and Fire-proof Floors,

LONDON—Office, 34, Cornhill.

TO BUILDERS AND PLUMBERS.

The attention of the Trade is called to

JOHN WARNER & SONS'

PATENT VIBRATING STANDARD PUMP,

which is recommended for the simplicity of its construction, and the ease with which it works.

By the introduction of the vibrating standard, the cumbrous carriage and expensive slings and guides are unnecessary, rendering the price considerably less than pumps made on the old plan.

Beer and Water Engines for raising fluids from a depth not exceeding 28 feet; also, Garden Engines constructed on the same principle.

JOHN WARNER & SONS,

6, Cornhill, Jervis-street, London,

Manufacturers and Patentees.

THE GWYNNE PUMP, for Mines, Ships, Drainage Works, Steam and Locomotive Engines, Waterworks, and every description of employment in which power and lifting are sought to be obtained with economy, and a general applicability to all circumstances. This Pump, which is acknowledged to be superior to any hitherto employed, is supplied by Mr JOHN GWYNNE, under guarantee against innovation of any kind from the holders of obsolete patents. Orders addressed to No. 1, Agar-street, Strand, London, will receive immediate attention. Local peculiarities of situation, &c. provided for by special arrangements. Testimonials forwarded to parties requiring them.

WATERING the ROADS.—Public attention is respectfully requested to BENJ. FOWLER'S very superior ROAD PUMPS, both plain and ornamental, large numbers of which have been fixed in various parts of both town and country. Yearly contracts entered into to keep the same in sound working order. The largest stock in England of every description of pump and engine frame for raising water. Designs and particulars forwarded on application.—BENJ. FOWLER'S Engine, Pump, and Hot Water Apparatus Manufactory (late Turner's), 45, Dorset-street, removed to the new factory, Wheatsheaf-street, Fleet-street.

ARTESIAN WELLS, Boring for Water, Sinking Shafts, &c.—The Wobtley, Gentry Water Companies, Fevers, Four-Jaw Unions, Public Baths, Breweries, Distillers, Paper-makers, Manufacturers of every description, may be SUPPLIED with any quantity by DAVID GREENLEY, Civil Engineer, and patentee of boring tools, 10, Cumming-street, Pentonville, London, who, having had upwards of twenty years' experience, is enabled to give the most satisfactory and highly responsible references. Pumps and machinery of every description, for raising water from deep wells, boring tools, with suitable pipes, for exportation, with instructions. Men and tools supplied to bore for railroads, minerals, &c.

CHUBBS' LOCKS, FIRE-PROOF SAFES, AND CASH BOXES.

CHUBBS' PATENT DETECTOR LOCKS give perfect security from false keys and picklocks, and also detect any attempt to open them. They are made of all sizes, and for every purpose to which locks are applied, and are strong, secure, simple, and durable.

CHUBBS' PATENT LATCH, for front doors, counting-house doors, &c. is simple in construction, low in price, and quite secure. The keys are particularly neat and portable.

CHUBBS' PATENT FIRE-PROOF SAFES, BOOKCASES, CHESTS, &c. made entirely of strong wrought-iron, so as effectually to resist the falling of brickwork, timber, &c. in case of fire, and are also perfectly secure from the attacks of the most skilful burglars.

CHUBBS' CASH and DEED BOXES, fitted with the Detector Locks.

CHUBB and SON, 57, St. Paul's Churchyard, London.

GREAT FIRES in MARK-LANE and SOUTHAMPTON-STREET, STRAND.—In these destructive Fires Doors and Iron Chests of immense value have been preserved uninjured by LEADBEATER'S PATENT FIRE-PROOF MAPPING LEADERS—BEST BOROWROUGHT IRON FIRE-PROOF BOOK BACKS, CHESTS, and DOORS, for Strong Rooms, Plate Closets, Safes, Party-walls, &c. of best make, and possessing all the most recent improvements are the most economical for property of every description, as in the world; extra-strong Cash and Deed Boxes, with Detector Locks; Patent Detector Locks and Keys for all purposes. LEADBEATER, PATENTEE AND MANUFACTURER of the much approved Ventilating and Perfect Draught-promoting CHIMNEY-POTS, the desirable article is found to be the most effectual cure for Smoky Chimneys ever yet before the public, and is adapted to every style of Architecture.

Testimonials on hand at LEADBEATER'S MANUFACTORY, 139, ALDERSGATE-STREET, CITY of LONDON, where Prospectuses may be had.

LEADBEATER, many years Manufacturer for Chubb.

TO WATER-COMPANIES AND PLUMBERS.

HIGH-PRESSURE COCKS and Cisterns.

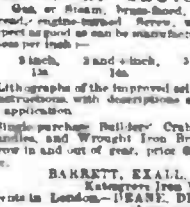
The Health of Towns Commissioners having recommended the adoption of the high-pressure principle to all towns, WARREN'S HIGH-PRESSURE COCK is recommended as a Cock free from leakage, and applicable for all purposes and situations. Patent Cisterns and Basins with supply-valve for attending direct to main pipes without a cistern, cocks, or wire.

LEAD, IRON, and TIN PIPE.

JOHN WARNER and SONS, Manufacturers, 6, Cornhill, Jervis-street, London.

PRIZE MEDAL, CLASS B.

HIGH-PRESSURE VALVE COCKS.—LAMBERT'S PATENT.



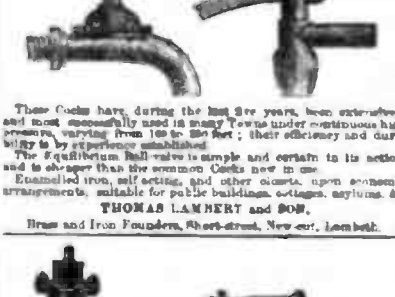
These Cocks have, during the last five years, been extensively and most successfully used in many Towns under continuous high pressure, varying from 100 to 300 feet; their efficiency and durability is by experience established.

The Equilibrium Ball valve is simple and certain in its action, and is cheaper than the common Cocks now in use.

Enamelled iron, self acting, and other closets, open ornamental arrangements, suitable for public buildings, cottages, asylums, &c.

THOMAS LAMBERT and SON,

Brass and Iron Founders, Short-street, New-cut, Lambeth.



IMPROVED SLUICE COCKS for Water Gas or Steam, brass-faced, and Sluices raised by square threaded engine-turned Screw, working in Brass Nut, in every respect as good as can be manufactured, are offered at the following prices per Pair:—

3 inch,	3 and 4 inch,	5 to 8 inch,	10 to 15-inch.
12s.	16s.	18s.	28s.

Lithographs of the improved self-lubricating, and various other constructions, with descriptions and prices attached, may be had on application.

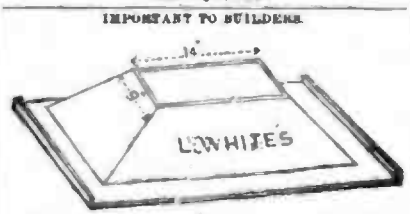
Single purchase Builders' Cranks, as above, fitted with Two Handles, and Wrought Iron Braces and Spindles, with Nuts to throw in and out of gear, price 6s. each. Delivered in London free.

BARRETT, EXALL, and ANDREWES,

Kakegawa Iron Works, Reading.

Agents in London.—DEANE, DRAY, and DEANE, where the above may be seen.

IMPORTANT TO BUILDERS.



REGISTERED CAST-IRON CHIMNEY-HOPPER and CHIMNEY BAR COMBINED, ensuring a perfect formation of the Flues and rendering smoky chimneys impossible. One trial will cause their adoption in every building. Price from 6s. 6d. each, according to size.

9 in.	9½ in.	10 in.	4 in.
Rain-water Pipe ...	6d.	6½d.	7d. per yard.
Eave Gutter ...	6d.	6½d.	7d.

C. G. system, on a wrought-in STABLE FITTINGS, patent bomb ruling, cast-iron pig troughs, and COLUMNS with caps and bases, and every kind of builders' castings, in stock, by LYNE & WHISH'S Iron Wharf, 69, Great Ground-street, London, near Blackfriars-bridge.

JENNINGS'S PATENT SHOP SHUTTER SHOES.

REMOVE A SHUTTER BAR UNDERNEATH.

The SIMPLICITY and EFFICIENCY of these SHOES may be judged of by their being in use in every thoroughfare throughout the metropolis.

Their COST is HALF that of the troublesome Shutter Bar.

They may be had through any ironmonger, or from the Patentee, G. JENNINGS, 29, Great Charlotte-street, Blackfriars-road.

REVOLVING SAFETY WOOD and IRON SHUTTERS.—ENOXALL, Patentee, 68, Regent-street, and at his Steam works, 12, Old-street. These shutters have fully borne out their superiority over other revolving shutters for security, durability, and simplicity. References can be given to nobility, whose mansions are fitted therewith, and numerous large establishments where same are fixed, measuring upwards of 600 square feet in one shutter, and which are opened and closed in a few moments with the greatest possible ease, without the use of machinery. The Patentee manufactures Brass rods, Bars, Mail Board Plates, &c.

CONVEX REVOLVING SHUTTERS, IN IRON AND WOOD.

CLARK and CO., 31, Chancery-lane, and Tunnel Iron Works, Wapping, Engineers and Manufacturers of Revolving Iron and Wood Shutters, Brass and Zinc Sash Bars for Shop Fronts, Mail Board and Name Plates. Testimonials and prospectuses forwarded on application.—Clark and Co. defy competition.

Revolving Iron Shutters, under Lewis's Patent, 3l. 15s. per foot.

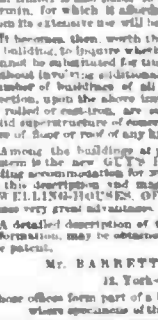
MESSRS. C. AND CO. HAD NOT EXHIBIT AT THE GREAT EXHIBITION.

LOSH, WILSON, and BELL, NEWCASTLE-ON-TYNE,

Manufacturers of Bar Iron, Railway Bars, Forge and Engine Work, Cast-iron Girders, and

STEWART'S PATENT CAST-IRON GAS and WATER PIPES

Offices, No. 7, Sun-court, London.



A SAVING of TIME and MATERIALS with solidity of building.

SATHAN GOUGHW PATENT PORTABLE STEAM-ENGINES of 2, 3, 4, and 6-horse power, for grinding mortar, raising building materials, driving piles, circular saws, pumps, &c., 48, Albert-street, Manchester.

TESTIMONIAL

from Charles Barry, Esq.,—

2, Great George-street, Westminster, London, April 5th, 1848.

Mr. Nathan George,

Sir,—I have, for Mr. Barry, the pleasure of requiring to your request of the 4th inst., for a testimonial of the working of three steam-cranes you have supplied to the New Houses of Parliament at Westminster, by saying that they have fully answered the purposes for which they were required, viz., hoisting the building materials; and two of the three have been at work for some years, with very little repairs, and with considerable economy of fuel.—I am, Sir, your obedient servant

Per pro. CHARLES BARRY,

ALFRED MEEKS.

FIRE-PROOF CONSTRUCTION.—FOX and BARRETT'S PATENT.—The great importance of fire-proof construction is shown by the recently published returns of fires in London during the past year, by which it appears that there is a considerable increase as compared with former years, the number actually exceeding 1,000, or an average of three per day.

This result affords strong corroboration of a fact stated upon high authority, THAT NO BUILDING IN WHICH TIMBER JOISTS ARE USED IS PRACTICALLY SECURE FROM THE DANGER OF FIRE; and when, on this fact is added that timber is also liable to dry-rot and the ravages of insects and vermin, for which it affords a ready harbour, the mischief arising from its extensive use will be sufficiently apparent.

It becomes then, worth the attention of those who are interested in building, to inquire whether materials of an imperishable nature cannot be substituted for timber in the construction of floors, &c., without involving additional cost; and attention is invited to a number of buildings of all classes, either finished or in course of erection, upon the above improved system, in which joists, either of rolled or cast-iron, are substituted for timber, together with a solid superstructure of concrete, adapted to receive a finished surface of floor or roof of any kind.

Among the buildings at present in progress in London on this system is the new GUY'S HOSPITAL, an extensive range providing accommodation for 300 additional beds; and for buildings of this description and magnitude, as well as for PRIVATE DWELLING-HOUSES, OFFICES, WAREHOUSES, &c. it possesses very great advantages.

A detailed description of the system, testimonials, and all further information, may be obtained on application to the Proprietors of the patent,

Mr. BARRETT, late Fox and Barrett,

12, York-buildings, Adelphi,

where offices form part of a building erected on this principle, and where specimens of the rolled iron joists may be seen.

GREAT EXHIBITION, Class 7, No. 188.

GREEN'S REGISTERED WINDGUARD,

is the cheapest and most effective article for the cure of SMOKY CHIMNEYS caused by the wind, and the only one that can be eliminated with the common machine in the ordinary sweeping of the chimney, from, according to size, from 6s. 6d. to 9s. 6d. Apply to ISAAC GREEN, 3, Villiers-place, Duke-street, St. Pancras Church, Euston-square, London. N.B. A month's trial allowed; if not successful, money returned!!

PATENT VULCANISED INDIA-RUBBER TUBING, for Gas Fittings, Counters, Engravers, Fire Engines, Manure Pumps, &c.—JAMES LYNE HANCOCK, Manufacturer of the Vulcanised India Rubber Tubing, which is now manufactured from the finest Para and Cameta in lengths from 20 to 100 feet, and of various strengths, suitable to the purposes for which it is applied. VULCANISED HOSE for FIRE ENGINES, LIQUID MANURE, and for conveying HOT WATER to BATHS in DWELLING-HOUSES and BREWERIES, manufactured to resist great pressure of any length and size to order.

*** Testimonials may be had on application at the Manufactory.

N.B. VULCANISED WASHERS and SHEET [illegible] for Steam and Hot Water Pipes, and Packings [illegible] Boxes of Steam Engines, cut any size to order.

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